

Title (en)

FORGED ALUMINUM VEHICLE WHEEL AND ASSOCIATED METHOD OF MANUFACTURE AND ALLOY

Title (de)

GESCHMIEDETES ALUMINIUMFAHRZEUGRAD UND ZUGEORDNETES HERSTELLUNGSVERFAHREN UND LEGIERUNG

Title (fr)

ROUE DE VEHICULE EN ALUMINIUM FORGE, PROCEDE DE PRODUCTION ET ALLIAGE ASSOCIES

Publication

**EP 1768797 A2 20070404 (EN)**

Application

**EP 05763435 A 20050624**

Priority

- US 2005022506 W 20050624
- US 58460604 P 20040701

Abstract (en)

[origin: US2006000094A1] A method of making a forged aluminum vehicle wheel includes forging a low copper bearing 7000 series aluminum alloy into a wheel workpiece followed by initial cooling and machining and surface treatment. Aging which may be natural aging, artificial aging or both may be provided after cooling and before or after machining. Corresponding forged aluminum wheels are disclosed. The low copper bearing 7000 series forged aluminum wheel has superior fatigue properties. An alloy suitable for use in the method and wheel is disclosed.

IPC 8 full level

**B21K 1/38** (2006.01); **B60B 21/00** (2006.01); **C22C 21/10** (2006.01)

CPC (source: EP US)

**B21K 1/38** (2013.01 - EP US); **C22C 21/10** (2013.01 - EP US); **C22F 1/053** (2013.01 - EP US); **Y10T 29/49524** (2015.01 - EP US); **Y10T 29/49529** (2015.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

**US 2006000094 A1 20060105**; CN 100525950 C 20090812; CN 101076416 A 20071121; EP 1768797 A2 20070404; EP 1768797 A4 20100317; WO 2006007483 A2 20060119; WO 2006007483 A3 20070222

DOCDB simple family (application)

**US 13858905 A 20050526**; CN 200580027577 A 20050624; EP 05763435 A 20050624; US 2005022506 W 20050624